

SEQUENCE LISTING

<110> VTT Biotechnology

<120> Non-competitive immunoassay for small analytes

<130> 2021739PC

<160> 5

<170> PatentIn version 3.1

<210> 1

<211> 215

<212> PRT

<213> Mus sp.

<400> 1

Met Ala Asp Ile Lys Met Thr Gln Thr Pro Ser Ser Leu Ser Ala Ser
1 5 10 15

Leu Gly Asp Arg Val Thr Ile Ser Cys Arg Ala Ser Gln Asp Ile Ser
20 25 30

Asn Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Asp Gly Thr Val Lys Leu
35 40 45

Leu Ile Tyr Tyr Thr Ser Arg Leu His Ser Gly Val Pro Ser Arg Phe
50 55 60

Ser Gly Ser Gly Ser Gly Thr Asp Tyr Ser Leu Thr Ile Ser Asn Leu
65 70 75 80

Glu Gln Glu Asp Ile Ala Thr Tyr Phe Cys Gln Gln Gly Asn Thr Leu

85

90

95

Trp Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys Arg Ala Asp Thr
 100 105 110

Ala Pro Thr Val Ser Ile Phe Pro Pro Ser Ser Glu Gln Leu Thr Ser
 115 120 125

Gly Gly Ala Ser Val Val Cys Phe Leu Asn Asn Phe Tyr Pro Lys Asp
 130 135 140

Ile Asn Val Lys Trp Asn Ile Asp Gly Ser Glu Arg Gln Asn Gly Val
 145 150 155 160

Leu Asn Ser Trp Thr Asp Gln Asp Ser Lys Asp Ser Thr Tyr Ser Met
 165 170 175

Ser Ser Thr Leu Thr Leu Thr Lys Asp Glu Tyr Glu Arg His Asn Ser
 180 185 190

Tyr Thr Cys Glu Ala Thr His Lys Thr Ser Thr Ser Pro Ile Val Lys
 195 200 205

Ser Phe Asn Arg Asn Glu Cys
 210 215

<210> 2

<211> 236

<212> PRT

<213> Mus sp.

<400> 2

Met Ala Ala Glu Val Lys Leu Val Glu Ser Gly Gly Thr Leu Val Lys
 1 5 10 15

Pro Gly Gly Ser Leu Lys Leu Ser Cys Glu Ala Ser Gly Ile Thr Phe
 20 25 30

Ser Thr Tyr Val Met Ser Trp Val Arg Gln Thr Pro Glu Lys Arg Leu
 35 40 45

Glu Trp Val Ala Ser Ile Asn Ser Gly Gly Arg Thr Tyr Tyr Pro Asp
50 55 60

Ser Val Lys Gly Arg Phe Ala Ile Ser Arg Asp Asp Lys Gly Asn Ile
65 70 75 80

Leu Tyr Leu Gln Leu Asn Ser Leu Arg Ser Glu Asp Thr Ala Ile Tyr
85 90 95

Tyr Cys Ala Arg Glu Gly Ser Tyr Gly Asn Asn Trp Tyr Phe Asp Val
100 105 110

Trp Gly Ala Gly Thr Thr Val Thr Val Ser Ser Ala Lys Thr Thr Pro
115 120 125

Pro Ser Val Tyr Pro Leu Val Pro Gly Ser Ala Ala Gln Thr Asn Ser
130 135 140

Met Val Thr Leu Gly Cys Leu Val Lys Gly Tyr Phe Pro Glu Pro Val
145 150 155 160

Thr Val Thr Trp Asn Ser Gly Ser Leu Ser Ser Gly Val His Thr Phe
165 170 175

Pro Ala Val Leu Gln Ser Asp Leu Tyr Thr Leu Ser Ser Ser Val Thr
180 185 190

Val Pro Ser Ser Thr Trp Pro Ser Glu Thr Val Thr Cys Asn Val Ala
195 200 205

His Pro Ala Ser Ser Thr Lys Val Asp Lys Lys Ile Val Pro Arg Asp
210 215 220

Cys Gly Thr Ser Trp Ser His Pro Gln Phe Glu Lys
225 230 235

<210> 3

<211> 215

<212> PRT

<213> Mus sp.

<400> 3

Met Ala Asp Ile Lys Met Thr Gln Thr Pro Ser Ser Leu Ser Ala Ser
1 5 10 15

Leu Gly Asp Arg Val Thr Ile Ser Cys Arg Ala Ser Gln Asp Ile Asn
20 25 30

Tyr Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Asp Gly Thr Val Lys Leu
35 40 45

Leu Ile Tyr Tyr Thr Ser Ile Leu His Ser Gly Val Pro Ser Arg Phe
50 55 60

Ser Gly Ser Gly Ser Gly Thr Asp Tyr Ser Leu Thr Ile Ser Asn Leu
65 70 75 80

Glu Gln Glu Asp Ile Ala Thr Tyr Phe Cys Gln Gln Gly Asn Ala Leu
85 90 95

Trp Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys Arg Ala Asp Ala
100 105 110

Ala Pro Thr Val Ser Ile Phe Pro Pro Ser Ser Glu Gln Leu Thr Ser
115 120 125

Gly Gly Ala Ser Val Val Cys Phe Leu Asn Asn Phe Tyr Pro Lys Asp
130 135 140

Ile Asn Val Lys Trp Lys Ile Asp Gly Ser Glu Arg Gln Asn Gly Val
145 150 155 160

Leu Asn Ser Trp Thr Asp Gln Asp Ser Lys Asp Ser Thr Tyr Ser Met
165 170 175

Ser Ser Thr Leu Thr Leu Thr Lys Asp Glu Tyr Glu Arg His Asn Ser
180 185 190

Tyr Thr Cys Glu Ala Thr His Lys Thr Ser Thr Ser Pro Ile Val Lys
195 200 205

Ser Phe Asn Arg Asn Glu Cys
210 215

<210> 4

<211> 236

<212> PRT

<213> Mus sp.

<400> 4

Met Ala Ala Glu Val Asn Leu Val Glu Ser Gly Gly Gly Leu Val Lys
1 5 10 15

Pro Gly Gly Ser Leu Lys Leu Ser Cys Glu Ala Ser Gly Ile Thr Phe
20 25 30

Ser Lys Tyr Val Ile Thr Trp Val Arg Gln Ala Pro Glu Lys Arg Leu
35 40 45

Glu Trp Val Thr Ser Ile Asn Ser Gly Gly Arg Thr Tyr Tyr Pro Asp
50 55 60

Ser Val Lys Gly Arg Phe Ala Ile Ser Arg Asp Asn Ala Gly Asn Ile
65 70 75 80

Leu Tyr Leu Gln Met Asn Ser Leu Arg Ser Glu Asp Thr Ala Ile Tyr
85 90 95

Tyr Cys Thr Arg Glu Gly Ser Tyr Gly Asn Asn Trp Tyr Phe Asp Val
100 105 110

Trp Gly Ala Gly Thr Thr Val Thr Leu Ser Ser Ala Lys Thr Thr Pro
115 120 125

Pro Ser Val Tyr Pro Leu Ala Pro Gly Ser Ala Ala Gln Thr Asn Ser
130 135 140

Met Val Thr Leu Gly Cys Leu Val Lys Gly Tyr Phe Pro Glu Pro Val
145 150 155 160

Thr Val Thr Trp Asn Ser Gly Ser Leu Ser Ser Gly Val His Thr Phe

165

170

175

Pro Ala Val Leu Gln Ser Asp Leu Tyr Thr Leu Ser Ser Ser Val Thr
 180 185 190

Val Pro Ser Ser Thr Trp Pro Ser Glu Thr Val Thr Cys Asn Val Ala
 195 200 205

His Pro Ala Ser Ser Thr Lys Val Asp Lys Lys Ile Val Pro Arg Asp
 210 215 220

Cys Gly Thr Ser Trp Ser His Pro Gln Phe Glu Lys
 225 230 235

<210> 5

<211> 272

<212> PRT

<213> Homo sapiens

<400> 5

Met Ala Gln Val Gln Leu Val Gln Ser Gly Gly Gly Leu Val Gln Pro
 1 5 10 15

Gly Arg Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asp
 20 25 30

Asp Tyr Ala Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu
 35 40 45

Trp Val Ser Gly Ile Ser Trp Asn Ser Gly Ser Ile Gly Tyr Ala Asp
 50 55 60

Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser
 65 70 75 80

Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr
 85 90 95

Tyr Cys Ala Arg Glu Arg Gly Gly Tyr Tyr Phe Asp Tyr Trp Gly Gln
 100 105 110

Gly Thr Leu Val Thr Val Ser Ser Leu Glu Gly Gly Gly Gly Ser Gly
115 120 125

Gly Gly Gly Ser Gly Gly Gly Gly Ser Glu Leu Asp Ile Gln Met Thr
130 135 140

Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly Asp Arg Val Thr Ile
145 150 155 160

Thr Cys Gln Ala Ser Gln Asp Ile Ser Asn Tyr Leu Asn Trp Tyr Gln
165 170 175

Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr Asp Ala Ser Asn
180 185 190

Leu Glu Thr Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr
195 200 205

Asp Phe Thr Phe Thr Ile Ser Ser Leu Gln Pro Glu Asp Ile Ala Thr
210 215 220

Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro Tyr Thr Phe Gly Gln Gly
225 230 235 240

Thr Arg Leu Glu Ile Lys Arg Ala Ala Ala Glu Gln Lys Leu Ile Ser
245 250 255

Glu Glu Asp Leu Asn Gly Ala Ala Ser Arg His His His His His His
260 265 270